Aspen Ridge Subdivision PWS # 7220007 SOURCE WATER ASSESSMENT FINAL REPORT

February 8, 2001



State of Idaho Department of Environmental Quality

Disclaimer: This publication has been developed as part of an informational service for the source water assessments of public water systems in Idaho and is based on data available at the time and the professional judgement of the staff. Although reasonable efforts have been made to present accurate information, no guarantees, including expressed or implied warranties of any kind, are made with respect to this publication by the State of Idaho or any of its agencies, employees, or agents, who also assume no legal responsibility for the accuracy of presentations, comments, or other information in this publication. The assessment is subject to modification if new data is produced.

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Under the Federal Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency (EPA) to assess every source of public drinking water for its relative sensitivity to contaminants regulated by the Act. The Idaho Department of Environmental Quality is completing the assessments for all Idaho public drinking water systems. The assessment for your particular drinking water source is based on a land use inventory within a 1,000 foot radius of your drinking water source, sensitivity factors associated with the source and characteristics associated with either your aquifer or watershed in which you live.

This report, *Source Water Assessment for Public Water System* # 7220007 describes the public drinking water system, the associated potential contaminant sources located within a 1,000` boundary around the drinking water source, and the susceptibility (risk) that may be associated with any associated potential contaminants. This assessment should be used as a planning tool, taken into account with local knowledge and concerns, to develop and implement appropriate protection measures for this system. **The results should <u>not be</u> used as an absolute measure of risk and is not intended to undermine the confidence in your water system.**

The Aspen Ridge Subdivision drinking water system consists of two wells located outside the one hundred-year flood plain, which ranked moderately susceptible to potential contaminants. The final *moderate* susceptible ranking falls in all category scores. This is due to several factors within your surrounding area that could be potential contaminant sources to your drinking water systems. The following considerations have been applied in determining your final wells ranking: hydrologic characteristics, physical integrity of the wells, land use characteristics, and potentially significant contaminant sources. There are no potential contaminant sources identified within the delineated capture zone at this time. According to the Natural Resources Conservation Service (NRCS) area definition, Fremont County is classified a predominately high farm chemical use county. Therefore, stormwater from agricultural type activities and septic systems could be potential contaminant sources. These are only possible contaminant sources and are presently not a threat to your drinking water systems. A copy of the susceptibility analysis for your system along with a map showing any potential contaminant sources is included with this summary. Information regarding the potential contaminants within the 1,000' boundary have been summarized and included in Table 1 below.

Table 1.

SITE #	Source Description	Source of Information	Potential Contaminants
	No Potential Contaminant Identified	Database Search	None

IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical

This assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or

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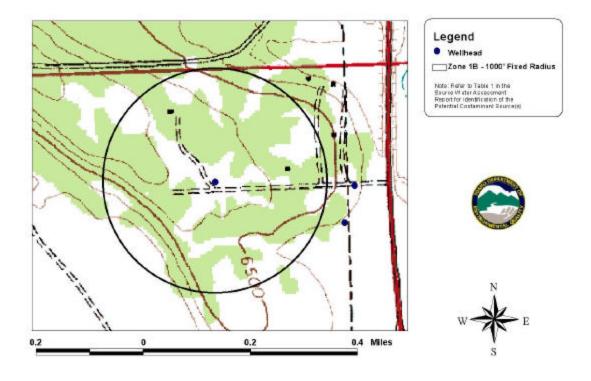
an area with numerous industrial and/or agricultural land uses, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

The Aspen Ridge Subdivision source water protection activities should focus on implementation of practices aimed at protecting the wells from agricultural and related inorganic contaminants that may leach within the designated source water area. You may want to establish a dialog with the following state and local agencies related to possible leachable contaminants that may affect the wells. Source water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term.

For assistance in developing source water protection strategies please contact Carlin Feisthamel or Rochelle Mason at the Idaho Falls Regional (IDEQ) Office at (208) 528-2650.

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POTENTIAL CONTAMINANT INVENTORY LIST OF ACRONYMS AND DEFINITIONS

<u>AST (Aboveground Storage Tanks)</u> – Sites with aboveground storage tanks.

<u>Business Mailing List</u> – This list contains potential contaminant sites identified through a yellow pages database search of standard industry codes (SIC).

<u>CERCLIS</u> – This includes sites considered for listing under the <u>Comprehensive Environmental Response Compensation</u> and <u>Liability Act (CERCLA)</u>. CERCLA, more commonly known as <u>ASuperfund@</u> is designed to clean up hazardous waste sites that are on the national priority list (NPL).

<u>Cyanide Site</u> – DEQ permitted and known historical sites/facilities using cyanide.

<u>Dairy</u> – Sites included in the primary contaminant source inventory represent those facilities regulated by Idaho State Department of Agriculture (ISDA) and may range from a few head to several thousand head of milking cows.

<u>Deep Injection Well</u> – Injection wells regulated under the Idaho Department of Water Resources generally for the disposal of stormwater runoff or agricultural field drainage.

Enhanced Inventory – Enhanced inventory locations are potential contaminant source sites added by the water system. These can include new sites not captured during the primary contaminant inventory, or corrected locations for sites not properly located during the primary contaminant inventory. Enhanced inventory sites can also include miscellaneous sites added by the Idaho Department of Environmental Quality (IDEQ) during the primary contaminant inventory.

Floodplain – This is a coverage of the 100year floodplains.

<u>Group 1 Sites</u> – These are sites that show elevated levels of contaminants and are not within the priority one areas.

<u>Inorganic Priority Area</u> – Priority one areas where greater than 25% of the wells/springs show constituents higher than primary standards or other health standards.

<u>Landfill</u> – Areas of open and closed municipal and non-municipal landfills.

<u>LUST (Leaking Underground Storage Tank)</u> – Potential contaminant source sites associated with leaking underground storage tanks as regulated under RCRA.

<u>Mines and Quarries</u> – Mines and quarries permitted through the Idaho Department of Lands.)

<u>Nitrate Priority Area</u> – Area where greater than 25% of wells/springs show nitrate values above 5mg/l.

NPDES (National Pollutant Discharge Elimination System) – Sites with NPDES permits. The Clean Water Act requires that any discharge of a pollutant to waters of the United States from a point source must be authorized by an NPDES permit.

<u>Organic Priority Areas</u> – These are any areas where greater than 25 % of wells/springs show levels greater than 1% of the primary standard or other health standards.

Recharge Point – This includes active, proposed, and possible recharge sites on the Snake River Plain.

RICRIS – Site regulated under **Resource Conservation Recovery Act (RCRA)**. RCRA is commonly associated with the cradle to grave management approach for generation, storage, and disposal of hazardous wastes.

SARA Tier II (Superfund Amendments and Reauthorization Act Tier II Facilities) – These sites store certain types and amounts of hazardous materials and must be identified under the Community Right to Know Act.

Toxic Release Inventory (TRI) – The toxic release inventory list was developed as part of the Emergency Planning and Community Right to Know (Community Right to Know) Act passed in 1986. The Community Right to Know Act requires the reporting of any release of a chemical found on the TRI list.

<u>UST (Underground Storage Tank)</u> – Potential contaminant source sites associated with underground storage tanks regulated as regulated under RCRA.

<u>Wastewater Land Applications Sites</u> – These are areas where the land application of municipal or industrial wastewater is permitted by IDEQ.

<u>Wellheads</u> – These are drinking water well locations regulated under the Safe Drinking Water Act. They are not treated as potential contaminant sources.

NOTE: Many of the potential contaminant sources were located using a geocoding program where mailing addresses are used to locate a facility. Field verification of potential contaminant sources is an important element of an enhanced inventory.

Where possible, a list of potential contaminant sites unable to be located with geocoding will be provided to water systems to determine if the potential contaminant sources are located within the source water assessment area.

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Ground Water Susceptibility Report Public Water System Name :

ASPEN RIDGE SUBD

Well# : WELL #2

11/6/2000 4:14:23 PM Public Water System Number 7220007

Drill Date Driller Log Available NO Sanitary Survey (if yes, indicate date of last survey) Well meets IDWR construction standards NO Sanitary Survey (if yes, indicate date of last survey) Well meets IDWR construction standards NO Survey (if yes, indicate date of last survey) Well heets IDWR construction standards NO Survey (if yes, indicate date of last survey) Well heets IDWR construction standards NO Survey (if yes, indicate date of last survey) NO Survey (if yes) NO Su	Contract Construction		GGODE			
Samitary Survey (If yee, indicate date of late survey)	System Construction		SCORE			
Satisary Starty 17 yes, indicate date of last survey 175 1997 1908 1997 1908 190	Drill Date					
Mellinead and surface and saintained Mo	Driller Log Available	NO				
Mellibed and eurlane seal resident of low permetholity with 1 NO 2 commitments and resident of low permetholity with 1 NO 1 No 1 Commitments and resident of low permetholity with 1 NO 1 Commitments and resident production 100 feet below static water level NO 1	Sanitary Survey (if yes, indicate date of last survey)	YES	1997			
Catalny and armular seal excend to low permeability unit	Well meets IDWR construction standards	NO	1			
No.	Wellhead and surface seal maintained	YES	0			
Mode	Casing and annular seal extend to low permeability unit	NO	2			
Rydrologic Semaitivity	Highest production 100 feet below static water level	NO	1			
Rydrologic Sensitivity Soils are poorly to enderately drained NO 2 Vadoes cone composed of gravel, fractured rock or unknown YES 1 Vadoes cone composed of gravel, fractured rock or unknown YES 1 Vadoes cone composed of gravel, fractured rock or unknown YES 1 Vadoes cone composed of gravel, fractured rock or unknown YES 1 VES 1 VES 1 VES V	Well located outside the 100 year flood plain	NO	1			
Soils are poorly to moderately drained NO 2		Total System Construction Score	5			
Soils are poorly to moderately drained NO 2	. Hydrologic Sensitivity					
Depth to first water > 300 feet	Soils are poorly to moderately drained					
Aquitard present with > 50 feet cumulative thickness NO 2	Vadose zone composed of gravel, fractured rock or unknown	YES	1			
Total Hydrologic Score 6						
DOC VOC SOC Microbia Score	Aquitard present with > 50 feet cumulative thickness	NO	2 			
Potential Contaminant / Land Use - ZONE 1A		Total Hydrologic Score	6			
Land Use Zone 1A RANGELAND, WOODLAND, BASALT 0 0 0 0 0			IOC	VOC	SOC	Microbial
Farm chemical use high YES	Potential Contaminant / Land Use - ZONE 1A		Score	Score	Score	Score
IOC, VOC, SOC, or Microbial sources in Zone IA						0
Total Potential Contaminant Source/Land Use Score - Zone 1A 0 0 2 0	Farm chemical use high	YES	0	0	2	
Potential Contaminant / Land Use - ZONE IB						
Contaminant sources present (Number of Sources)	Total Potenti:	al Contaminant Source/Land Use Score - Zone IA			2 	
Contaminant sources present (Number of Sources)						
Sources of Class II or III leacheable contaminants or NO		NO	0	0	0	0
A Points Maximum			0	0	0	0
Zone 1B contains or intercepts a Group 1 Area	Sources of Class II or III leacheable contaminants or	NO	0	0	0	
Land use Zone 1B Less Than 25% Agricultural Land 0 0 0 0 0	4 Points Maximum		0	0	0	
Land use Zone 1B Less Than 25% Agricultural Land 0 0 0 0 0	Zone 1B contains or intercepts a Group 1 Area	NO	0	0	0	0
Potential Contaminant / Land Use - ZONE II	Land use Zone 1B	Less Than 25% Agricultural Land	0	0	0	0
Contaminant Sources Present	Total Potential	Contaminant Source / Land Use Score - Zone 1B	0	0	0	0
Sources of Class II or III leacheable contaminants or NO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Potential Contaminant / Land Use - ZONE II					
Land Use Zone II	Contaminant Sources Present	NO	0	0	0	
Potential Contaminant Source / Land Use Score - Zone II	Sources of Class II or III leacheable contaminants or	NO	0	0	0	
Potential Contaminant / Land Use - ZONE III	Land Use Zone II		0	0	0	
Contaminant Source Present NO 0 0 0 0 Sources of Class II or III leacheable contaminants or NO 0 0 0 0 Is there irrigated agricultural lands that occupy > 50% of NO 0 0 0 0 Total Potential Contaminant Source / Land Use Score - Zone III 0 0 0 0 0	Potential	Contaminant Source / Land Use Score - Zone II	0	0	0	0
Sources of Class II or III leacheable contaminants or NO 0 0 0 0 Is there irrigated agricultural lands that occupy > 50% of NO 0 0 0 Total Potential Contaminant Source / Land Use Score - Zone III 0 0 0 0 0	Potential Contaminant / Land Use - ZONE III					
Is there irrigated agricultural lands that occupy > 50% of NO 0 0 0 Total Potential Contaminant Source / Land Use Score - Zone III 0 0 0 0 0	Contaminant Source Present	NO	0	0	0	
Total Potential Contaminant Source / Land Use Score - Zone III 0 0 0 0 0	Sources of Class II or III leacheable contaminants or	NO	0	0	0	
	Is there irrigated agricultural lands that occupy > 50% of	NO	0	0	0	
			0	0	0	0
			0	0	2	0

4. Final Susceptibility Source Score	11	11	11	11
5. Final Well Ranking	Moderate	Moderate	Moderate	Moderate